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the work of the veterinarian there are, first, two introductory chapters dealing with the Use of Animals in Bacteriological Examinations and Investigations, and the Bacteriology of Water and Milk. These are followed by eight chapters dealing with the various principal genera and species of microorganisms that produce diseases in domestic animals, together with their pathogenesis and, where known, the treatment. These chapters present very valuable material for the general student of biology, as well as for the veterinarian.

In the concluding chapters the author discusses some of the broader questions of physiology, theory, diagnosis and therapy of the bacterial diseases under the heads:—Specific Bacterial Products, Tissue Reactions and Immunity; Serum Diagnosis; Immunity and Vaccine Therapy. This resumé is very readable and valuable to the general student. The mechanical excellence of the book is all that could be desired.

Principles of Microbiology, by V. A. Moore. Pages 506; illustrated. Carpenter & Co., Ithaca, N. Y. Price \$3.50.

BEGINNERS GUIDE TO THE MICROSCOPE

This is an elementary handbook designed to aid the untechnical person to use the microscope for his own pleasure and that of his friends. The need of such a book seems to the author to lie in the great complexity of the modern instrument and the wealth of its accessories, and in the elaborate character of the modern books about the microscope. In a very simple, gossipy way quite suitable to his expressed purpose, the author describes the microscope and its essential parts, the formation of images, illumination; discusses the principles that should guide in the choice of an instrument; gives rules for the use of the instrument and for its care; tells of interesting objects for temporary mounts. There are also sections on the home aquarium, on collecting objects, on mounting for permanent display, and on storing slides.

In many ways it is much to be regretted that there are not more of our modern Americans who turn to such methods of interest and diversion as are suggested here. The use of the microscope as a serious instrument of education and research in schools has in-

creased greatly in this country; but it is remarkable that so few people use it as a means of recreation, pleasure, and general culture.

The Beginners Guide to the Microscope, by Chas. E. Heath, F. R. M. S. Illustrated; 120 pages. Price 1 shilling. Percival Marshall & Co., London.

MICROSCOPY AND DRUG EXAMINATION

In this little book the author seeks to present in a simple and condensed form the elements of microscopy and histology demanded by pharmaceutical students. In Part I, which is given to Microscopy, are discussed briefly,—often too briefly to be satisfactory,—microscopes, microscopic photography, manipulation and care of the microscope, reproduction and measurements of microscopic objects; histology, microchemistry; the preparation and mounting of microscopic objects; cells; plant and animal tissues; microscopy of starches, etc. A series of laboratory exercises illustrating certain part of plant and animal biology follow.

Part II is taken up with suggestions as to the microscopical examination of some 35 “drugs” in their commercial form. In Appendix A is a valuable table defining the various elements constituting and produced by cells, giving their properties and the method of identifying them by staining or otherwise.

The last 50 pages of the book are given to figures illustrating lenses, microscopes, drawing apparatus, tissues, organs, drugs.

Mechanically the book is marred by the unnecessarily large type in which the words desired to be emphasized are printed.

Microscopy and the Microscopical Examination of Drugs, by Charles E. Gabel, Ph.D., Microscopical Food and Drug Analyst Iowa State Dairy and Food Commission. Illustrated; 114 pages. Price \$1.00, postpaid. Des Moines, Iowa.